Supplemental Amendment under 37 CFR § 1.111 Application No. 10/775,075 Attorney Docket No. 042100

## **AMENDMENTS TO THE CLAIMS**

This listing of claims replaces all prior versions of claims in the application.

- 1. (Currently Amended): An electrodeposited copper foil wherein part of knob-like projections are formed intermittently on its smooth matte side surface comprises a rough surface having knob-like projections and a surface roughness [[of]] thereof is 2.2 to less than 4 μm.
- 2. (Previously Presented): An electrodeposited copper foil as set forth in claim 1, wherein said rough surface having said knob-like projections and said surface roughness of 2.2 to less than 4  $\mu m$  is a surface of an untreated copper foil for bonding with a resin substrate and is further roughening treated by running a predetermined current through the foil for a predetermined time in an electroforming bath.
- 3. (Original): An electrodeposited copper foil as set forth in claim 2, wherein said electroforming bath is an acidic electroforming bath containing at least one of molybdenum, cobalt, nickel, iron, tungsten and arsenic.
- 4. (Original): An electrodeposited copper foil as set forth in claim 2 or 3, wherein said rough surface is further formed with a copper plating layer.

Supplemental Amendment under 37 CFR § 1.111 Application No. 10/775,075

Attorney Docket No. 042100

5. (Previously Presented): An electrodeposited copper foil as set forth in claim 2 or 3, wherein said rough surface is further formed with a copper plating layer and at least one layer of nickel plating, zinc plating, cobalt plating, plating of an alloy of the same and a chromate treatment layer on that.

- 6. (Previously Presented): An electrodeposited copper foil as set forth in claim 1, wherein said rough surface having said knob-like projections and said surface roughness of 2.2 to less than 4 μm is a surface of an untreated copper foil for bonding with a resin substrate and is further formed with a copper plating layer and at least one layer of nickel plating, zinc plating, cobalt plating, plating of an alloy of the same and a chromate treatment layer on that.
- 7. (Withdrawn-Previously Presented): A method of producing an electrodeposited copper foil comprising electrolysis using an electrolyte containing copper as a main component and a compound having mercapto groups, at least one type of another organic compound, and chloride ions to form a copper foil wherein part of its surface comprises a rough surface having knob-like projections and a surface roughness of 2.2 to less than 4  $\mu$ m.
- 8. (Withdrawn): A method of producing an electrodeposited copper foil as set forth in claim 7, wherein an electroforming bath for a roughening treatment is an acidic electroforming bath containing at least one of molybdenum, cobalt, nickel, iron, tungsten and arsenic.

Supplemental Amendment under 37 CFR § 1.111 Application No. 10/775,075 Attorney Docket No. 042100

- 9. (Withdrawn-Previously Presented): A method of producing an electrodeposited copper foil comprising producing an electrodeposited copper foil having a matte side having a surface roughness of 2.2 to less than 4 µm using an electrolyte containing a compound having mercapto groups, at least one type of another organic compound, and chloride ions and roughening treating said matte side of said electrodeposited copper foil by running a predetermined current through it for a predetermined time in an electroforming bath.
- 10. (Previously Presented): An electrodeposited copper foil as set forth in claim 5, wherein said rough surface having said knob-like projections is further formed with a coupling agent treatment layer.
- 11. (Previously Presented): An electrodeposited copper foil as set forth in claim 6, wherein said rough surface having said knob-like projections and said surface roughness of 2.2 to less than 4 µm is further formed with a coupling agent treatment layer.